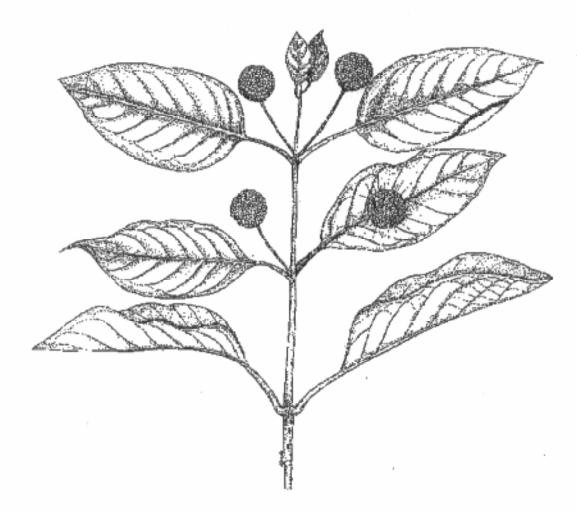
Planting Guidelines: Choosing the Appropriate Trees, Shrubs, Herbs, and Seeds to Plant in Our Parks





Cephalanthus occidentalis Buttonbush

North Carolina Division of Parks and Recreation Department of Environment and Natural Resources

Planting Guidelines: Choosing the Appropriate Trees Shrubs, and Herbs to Plant in Our Parks

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Department of Environment and Natural Resources

Division of Parks and Recreation

Raleigh, North Carolina

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Cover Illustration

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Plant Council's Landscaping with Native Plants brochures as well as the Virginia Department of Conservation and Recreation and Virginia Native Plant Society's Native Plants for Conservation, Restoration and Landscaping – Master List. These works are excellent sources of

information on native plants.

The format and content of these guidelines were heavily influenced by the Tennessee Exotic Pest

I wish to thank Johnny Randall, North Carolina Botanical Garden, Harry LeGrand and Jame Amoroso, North Carolina Natural Heritage Program; and other staff with the North Carolina Division of Parks and Recreation, who took the time to thoughtfully review this document.

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PLANTING GUIDELINES

	2: 31 You in regard	Title:	Section: 1.0 Page: 1 of 1
Originato		PLANTING GUIDELINES	Date: November 1, 1998
1.0	งราส แก้ 2566	ks provide a showcase for the natural	
seting for	North Caroli choosing onl addition, as j introduction ecological in	na. We have the opportunity to enhance y native species for our landscaping an park managers we have the responsibile of invasive non-native plant species that tegrity of these important public lands.	ce this natural heritage by d restoration projects. In ity to not allow the at could sacrifice the
vice svoid The only the old the old they skiller	the proper re length of this the common plants and so should conti- landscaping	g Planting Guidelines provide a list of egion and habitat are appropriate to use s list clearly shows that there are innum ly used hybrids and exotic species. The eds provides a good distribution of sup nue to grow as the movement toward u continues to gain momentum.	common plant species that in e in our parks. The extensive herable native alternatives to e list of sources of native appliers throughout the state and asing native species for
er ages the street the street steet base steet	The Division North Carol restoration p	n of Parks and Recreation is in the posi- ina with this policy of using only native projects. With this policy, we not only for native wildlife, but most important, and good stewardship of our precious	tion to set the example for e species for landscaping and plant species that provide food we promote the concept of
	Sincerely,		พลัสตร์ที่ กระบาลุล.15
	Philip K. M	cKnelly	

Director

Guideline: 31		Title:	Section: 2.0
Originator: S	mith	PLANTING GUIDELINES	Page: <u>1 of 1</u> Date: <u>November 1, 1998</u>
2.0	INTRODUC	TION AND POLICY STATEMENT	
	minimizing the for us to be a come to the f	s of good stewardship in our parks ofte e destruction of our valuable native plant l ware of what plants we introduce into our forefront in recent years as we build new urposes including soil stabilization and lan	ife. It is equally as important r boundaries. This issue has facilities and are planting for
	landscape che remain a sho introducing a exception to case, there m prompt stabil	agers, it is our responsibility to use native paracter within our boundaries. By using owcase for the natural diversity found in exotic species that could become invast this principle involves the use of seeds ay not be native species that are commercialization. For this purpose non-native seeds to invasive characteristics.	native vegetation, the parks in the state, and we avoid ive and disruptive. The only for soil stabilization. In this ally available and that provide
	native specie planted for s natural areas and seeds) th in these gui	re, the policy of the North Carolina states for landscaping and restoration project soil stabilization as long as the particular of our parks. These guidelines provide list at are appropriate for use in the parks. Sidelines will be planted in the parks only an agement Program.	s. Non-native seeds may be species will not invade the s of plant species (both plants pecies other than those listed

Guideline: 31 Title: Section: 3.0 section Page: 1 of 1 Originator: Smith PLANTING GUIDELINES Date: November 1, 1998 DEFINITION OF NATIVE PLANTS 3.0 Native plants are those that occur and have evolved in a region naturally without human intervention or manipulation. Since plants evolve over geologic time in response to the physical and biotic processes characteristic of a region, native plants possess certain traits that make them uniquely adapted to local conditions, providing a practical and ecologically valuable alternative for landscaping. Native plants are also generally defined as plants that occurred in North America before European settlement. This distinction is made because of the large-scale changes in the flora that have resulted since European settlement and the introduction of exotic plants.

Origina	tor: Smith	PLANTING GUIDELINES	Date: November 1, 1998						
4.0	BENEFIT	OF NATIVE PLANTS							
	★ Pro	note biodiversity and environmental stewa	rdship.						
	→ Prov	ide food and shelter for native wildlife							

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Provide food and shelter for na

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- Adapted to local weather and soil conditions and generally require less maintenance.
- ★ Usually more resistant to local pest populations.
 ★ Generally require fewer pesticides and fertilizers because of natural
- adaptations.

1	NATIVE PLANT LIST This document identifies native plant species for landscaping and restoration project in the parks. This list provides a selection of plant choices adapted to growing conditions in North Carolina, focusing on those native species currently available in the nursery trade. The information on native regions, light requirements, and moisture requirements on this list is meant as general guidance. More detailed information should be consulted when it is necessary to determine if a species in native to the particular region of a park and is adapted to site-specific conditions. For the most part, relatively common species have been included on the list. Rar species were left off the list in order to protect the genetic integrity of naturally occurring populations of rare species and avoid the collection of rare plants. Rar species are defined as those species listed by the Natural Heritage Program a Endangered, Threatened, Special Concern, Candidate, or Significantly Rare. Ther may be instances where park staff would like to use a rare plant species that occur naturally in the park for a native garden display. In this case, park staff should work with a local nursery to propagate native material to use in this display. Use of rar		
Originator: Si	mith 4	PLANTING GUIDELINES	Date: November 1, 1998
5.0	NATIVE PLA	ANT LIST Y OFFANISH ATRABO?	CRETINATE OF
divincy of these there are only the commercially speaks that Sa	in the parks. conditions in N the nursery tr moisture requ information sh	This list provides a selection of plan North Carolina, focusing on those natival. The information on native re- irements on this list is meant as gen- could be consulted when it is necessary	t choices adapted to growing we species currently available in gions, light requirements, and eral guidance. More detailed by to determine if a species in
r droughts - Fal	species were leading pop species are de Endangered, I may be instant naturally in the with a local nu	eft off the list in order to protect the ulations of rare species and avoid the efined as those species listed by the Threatened, Special Concern, Candidates where park staff would like to use a park for a native garden display. In the	e genetic integrity of naturally collection of rare plants. Rar Natural Heritage Program a te, or Significantly Rare. Ther a rare plant species that occur his case, park staff should work use in this display. Use of rar

basis with the Resource Management Program.

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Flark fische is an expellent perceptit glass for medway regeration since its low growth hear requires less moving charge the growing cassas. It is also a good companion grass for wildflower and not meding plantengs.

Farmers water (Creoping Real Fische).

As its recordingles, construgted testine had a theremore growth belief. This cool

season perennial grass is used in per an assessment for the motastains and predmont.

Chargonal red figures has similar obst

to is adapted for classic, traffic, and the dies

France retray up communical (Chawings Rod Eugent)

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60 SEEDS FOI	SOIL STABILIZATION	

The following species of grasses are approved for use in our state parks for soil

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stabilization and around buildings where lawns are desired. The majority of these species are by necessity not native to North Carolina. At present, there are only a few species of native grasses useful for erosion control that are commercially available. Grass seed can be mixed with native wildflower seeds for soil stabilization in less managed areas where a landscape with more color and texture is

Festuca arundinacea (Tall Fescue)

preferred.

drought tolerance, fair shade tolerance, and tolerates soils that are relatively poorly drained.

Festuca ovina var. duriuscula (Hard Fescue)

growth habit requires less mowing during the growing season. It is also a good companion grass for wildflower and tree seedling plantings.

Festuca rubra (Creeping Red Fescue)

As its name implies, creeping red fescue has a rhizomatous growth habit. This cool season, perennial grass is used in turf grass mixtures for the mountains and piedmont. It is adapted for shade, traffic, and flooding.

Tall fescue is a perennial, cool-season, deeply rooted bunch grass that is used for stabilizing slopes and road banks as well as for lawns. It is a robust and strongly competitive plant that remains green all year except in midsummer months. Tall fescue grows in low-fertility, acid, clayey, loamy, and sandy soils. It has good

Hard fescue is an excellent perennial grass for roadway vegetation since its low

Festuca rubra var. commutata (Chewings Red Fescue)

Chewings red fescue has similar characteristics to creeping red fescue.

A number of species of barley can be used for soil stabilization. Barley is a cool season, annual grass that when moisture is available will germinate in the fall, stay green during the winter, and then die in the spring as competition from warm season plants increases.

Pennisetum glaucum (Brown Top or Pearl Millet)**

This fast-growing, robust, annual grass exhibits good drought tolerance which makes this species an important warm season option for soil stabilization.

Phalaris arundinacea (Reed Canarygrass)**

A native to North Carolina, this perennial cool season grass is used for the stabilization of pond shorelines, drainage ditches, and streambanks in the mountains and western piedmont. It is established by planting freshly cut stem slips or rhizome

Kentucky bluegrass is a dense, sod-forming, long-lived perennial grass used extensively in lawns and slopes. It is best adapted to well drained, fertile soils with a pH of 6.0 to 6.5. This drought tolerant grass will grow as long as the ground is not frozen. It prefers sunlight but also does well in light shade. Kentucky bluegrass is

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Unity the small-stemmed varieties of the acquelibrating season make should be used:

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Poa pratensis (Kentucky Bluegrass)

fragments.

Title:

Hordeum spp. (Barley)

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Dup included (Izentuch, Diacgrass

Secale cereale (Winter Rye or Rye Grain)

usually used in a mixture with other grasses.

Secale cereate (Winter Rye or Rye Gran

Winter rye is a cold-hardy annual grass that will germinate and grow at low temperatures. By maturing early, it offers less competition during the late spring period, a critical time in the establishment of perennial species. Winter rye germinates quickly and is tolerant of poor soils.

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Sorghum bicolor (Sudangrass)

Only the small-stemmed varieties of this annual warm season grass should be used. Sudangrass is useful for temporary seeding, and it is adapted to soils relatively high in clay content. Seed for common Sudangrass is not always available, but other small-stemmed types may be used, such as the hybrid Trudan. The coarse-stemmed Sorghum-Sudangrass hybrids are not appropriate for erosion control.

Stenotaphrum secundatum (St. Augustinegrass)

This native, warm season, perennial grass is used for turf in the coastal plain and southern piedmont. St. Augustinegrass is adapted to sun, shade, and salt spray, but is not cold hardy. It is propagated vegetatively and, therefore, is planted as sod or in plugs.

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7.0 <u>SUPPLIER</u>	S OF NATIVE PLANTS		SEPPLIEN Vellander						
material. Inc offer non-na scientific nar	clusion on this list is not me tive plant material. For the	eant to imply that is reason, it is alw ecific epithet) w	bliers that supply native plant t these businesses do not also ways important to specify the then purchasing any plants or						
Applewood	Seed Co.	oro Shrub Nursery							
5380 Vivian	St. noing	4514 Bu	rlington Rd						
Arvada, CO	80002 10 f is a Collis	Greensbo							
303-431-733	33		9-4514 or 910-621-6579						
		er de stripte de							
Boothe Hill		Laurel Springs Nursery 401 Regal Street							
921 Boothe									
Chapel Hill,			onville, NC 28792						
919-967-409		828-692-	4012						
(native grass	seed also available)	Niche Ga	rdone						
Come Numer			wson Rd.						
Cure Nurser 880 Buteo F	*		Hill, NC 27516						
Pittsboro, N	7 - 9 - 11	919-967-							
919-542-613		919-907-	-0076						
919-342-010	30	Sharn Br	ros. Seed Co.						
Ernst Conse	rvation Seeds		Davis -LaDue						
9006 Merce			MO 64735						
Meadville, F		816-885							
814-425-72		,	vildflower and grass seeds)						
	flower and grass seeds)								
(224,177,171	,	Wa Ya N	Nursery & Tree Farm						
Garrett Wile	iflower Seed Farm	11199 C	anada Rd.						
	Castle Court	Tuckase	gee, NC 28783						
Raleigh, NO	27603	828-293	-5720						
919-662-97									

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SUPPLIERS OF NATIVE PLANTS AND SEEDS (CONTINUED)

 We-Du Nurseries
 Woodlanders, Inc.

 Rt. 5, Box 724
 1128 Colleton Ave.

 Marion, NC 28752
 Aiken, SC 29801

 828-738-8300
 803-648-7522

For more information about suppliers of native plants contact:

North Carolina Botanical Garden University of North Carolina at Chapel Hill CB 3375, Totten Center Chapel Hill, NC 27599-3375 919-962-0522

'Native Plant Sources'

	-(Guideline: 318 (00)1092				Title:		-brf			n: <u>8</u>		eretie	hip)	54.						
	(Origi	inato	or: <u>S</u>	mith	Dste	PLA	NTING GUIDELINES	<u>S</u>			Vove		1, 1	998						
2/042	8.	0		ungi.	MAS	STER L	IST OF NA	TIVE PLANTS				auri	f.sii	ivis	he						
						Nativ	e Regions														
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×	X		Х	X.	F=	Full s	11.0	tahao ajjaw romela				Sal	acj.	14.85	Chapteropper						
	Moisture Requirements						Lagrania Communica														
	X X X X L= X Low moist				L=	Low	moisture	POLITICAL	4				27:43	e die							
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T.	10			X		111	X.	ilec nix	TE P				noise dece			ALDERES DARK					
		Sc	ient	ific l	Name	ХХ	7	Common Name		Region		Light			Moisture						
)s	XT	XX		DUSKO /	M	P	C	S	P	F	L	M	Н	A			
Med	ium	to l	Larg	ge T	rees	X XI	XII 31	pro victive dahlag gill		distinct	and the same of		MALAS MALAS	Lance Lance							
Acer	bar	batu	ım				Southe	ern sugar maple		X	X	X	X			X					
Acer	rub	rum		x		XII	red ma	ple designation	X	X	X	X	Х	X	No. o	X	X				
Acer	sac	cha	rimu	m			silver 1	naple		X		X	Х	Х		X					
Acer	sac	chai	rum	k	X	x I	sugar	maple	X			454	X	X		X					
Betu	la a	llegi	hani	ensi.	S		yellow	birch	X			Х	X			X					
Betu	la le	enta	4.5				cherry	birch, sweet birch	X			x	х	l in		X					
Betu	Betula nigra			river b	irch	x	X	x		х	Х		X	X							
Car	va co	ordi	form	iis	32		bittern	ut hickory	x	X	х	Х	х	1/16	in the	X	60				

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Scientific Name	Common Name	· F	Regio	on	1	Ligh	t	Moisture			
		M	P	C	s	P	F	L	M	H	A
Carya glabra	pignut hickory	x	х	Х	х	х		х	Х		
Carya ovata	shagbark hickory	х	Х		X	X			X		
Carya tomentosa	mockernut hickory	х	х	х	Х	х		х	Х		
Celtis laevigata	sugarberry, hackberry		х	х	X	Х			X		
Chamaecyparis thyoides	Atlantic white cedar			Х		Х	Х		х	X	
Cladrastis kentuckea	yellowwood	X	- 33		X	x			X		
Diospyros virginiana	persimmon	х	Х	Х	Х	Х	Х	Х	Х		
Fagus grandifolia	American beech	х	Х	х	Х	Х			x		
Fraxinus americana	white ash	X	Х	Х	X	Х			х		
Fraxinus pennsylvanica	green ash	x	Х	Х	Х	Х			X	X	
Juglans nigra	black walnut	X	Х	Х	Х	X			Х		
Liquidambar styraciflua	sweetgum	X	х	х	х	х	Х		X	X	
Liriodendron tulipifera	tulip poplar, yellow poplar	x	Х	X	Х	х	Х		X		
Magnolia acuminata	cucumber magnolia	x	х		Х	X			X		
Nyssa aquatica	water tupelo			Х	X	X				X	
Nyssa sylvatica	black gum	X	X	X	х	Х	x	X	X		
Nyssa sylvatica var. biflora	swamp black gum, swamp tupelo			Х	Х	X	X			Х	
Oxydendrum arboreum	sourwood	x	X	Х		Х	Х	X	X	(91.1) 1877	
Picea rubens	red spruce	x			Х	X	X		X		
Pimus echinata	shortleaf pine	X	X	X		X	x	X			

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Scientific Name	Common Name	F	tegio	n	inal	Ligh	t de	Moisture				
AND RESIDENCE		M	P	C	s	P	F	L	M	н	A	
Pinus palustris	longleaf pine	oid	х	Х		-	Х	х	х	of the		
Pinus rigida	pitch pine	X					X	X				
Pinus serotina	pond pine	ube	20/16/12	Х		1000	X	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	x	Х		
Pinus strobus	white pine	X	Х			Х	X	197	X	100		
Pimus taeda 💢 💢 🔀	loblolly pine	endi.	Х	Х			Х	Х	X	X	Ō	
Pinus virginiana	Virginia pine	X	X				X	X	*	-141		
Platamus occidentalis	sycamore	X	х	Х	110000	х	Х	Ub.	Х	х		
Prunus serotina	black cherry	X	x	X	Х	Х	X	Х	X			
Quercus alba 🔀 🔀 🔣	white oak	X	х	Х		х	X	X	X			
Quercus bicolor	swamp white oak		х		Х	Х				X		
Quercus coccinea	scarlet oak	X	х	H-VIP-3	Х	Х		X	di 1	1815) 1815)		
Quercus falcata	Southern red oak	X	x	Х	х	Х		х	X			
Quercus falcata var. pagodaefolia	cherrybark oak	7.0	X	Х	X	X		1-010	X	X		
Quercus laurifolia	laurel oak			X	Х	X	Х		X	X		
Quercus lyrata	overcup oak	1940	X	Х	Х	X	river	T Silver	000	X		
Quercus margaretta	sand post oak	4.0		х		X	Х	Х				
Quercus marilandica	black jack oak dagarana daga	X	Х	Х	Х	X	912	X	duties	Van	X	
Quercus michauxii	swamp chestnut oak		х	x	Х	Х				х		
Quercus nigra	water oak general have		х	x	X	X	en k	X	X	(SE		
Quercus phellos	willow oak		Х	Х	Х	X			X	X		
Quercus prinus	chestnut oak	X	X		X	X		X	-		1	

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Scientific Name	Common Name	F	legio	n		Ligh	t	Moisture			
		М	P	C	s	P	F	L	М	H	A
Quercus rubra	Northern red oak	Х	х		Х	Х		х	X		
Quercus shumardii	shumard oak		х	х	х	Х			X	X	
Quercus stellata	post oak	Х	Х	Х	Х	Х		х			
Quercus velutina	black oak	x	x	Х	х	х		х			
Quercus virginiana	live oak			Х		Х	Х	х			
Robinia pseudoacacia	black locust	Х	X			x	X		X		
Taxodium distichum	baldcypress			Х		Х	Х				Х
Tilia americana var heterophylla	basswood	x	х		x	X			X		
Tsuga canadensis	Eastern hemlock	х	х		Х	Х	Х		Х		
Tsuga caroliniana	Carolina hemlock	x	х			X	X	x			
Ulmus alata	winged elm		Х	Х	Х	Х	х	Х	Х		
Ulmus americana	American elm	х	х	Х	Х	х			х		
Small Trees											
Amelanchier arborea	downy serviceberry, shadbush	Х	Х	Х	Х	X			Х		
Amelanchier canadensis	Canada serviceberry			х			Х		X	X	
Amelanchier laevis	smooth serviceberry	Х				X	Х	X	X		
Asimina triloba	pawpaw	х	х	x	x	Х			X	k	
Carpinus caroliniana	ironwood, American hornbeam	X	Х	х	Х	Х			X	Х	
Cercis canadensis	eastern redbud	X	Х	X	X	X			x	1	

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Scientific Name	Common Name	F	tegio	on	(E3(r)	Ligh	t don	[0]	Mois	ture	,
Market and the		М	P	C	S	P	F	L	М	H	A
Chionanthus virginicus	white fringetree, old man's beard	х	х	х		Х	x	i sara	х	(this)	
Cornus alternifolia	alternate-leaf dogwood	X			Х	X			X	45	
Cornus florida	flowering dogwood	Х	Х	Х	Х	Х		Х	Х		
Crateagus crus-galli	cockspur hawthorn	X	х	Х		Х	X	X	X	- Jan	
Crateagus flava	October haw	X	Х	Х		Х	Х		х		6
Cyrilla racemiflora	titi	-		X		х	Х		X	х	
Fraximus caroliniana	water ash			Х	Х	Х			30.0	Х	
Gordonia lasianthus	loblolly bay			Х	Х	X	X		X	X	
Halesia tetraptera (H. carolina)	common silverbell	Х	Х		X	Х			X	1981	
Ilex opaca	American holly	X	X	Х	Х	X		X	X	X	
Juniperus virginiana	Eastern red cedar	X	х	х		Х	х	X	X		
Magnolia tripetala	umbrella tree	X	X		Х				X		
Magnolia virginiana	sweetbay magnolia		X	Х	Х	X	483.8		X	X	
Morus rubra	red mulberry	X	х	х	X	X		# #42	X		
Osmanthus americana	wild olive, devilwood		-44	Х	Х	X	s is to		X		
Ostrya virginiana	Eastern hop-hornbeam	X	X		X	X	-		X	16.	
Persea borbonia	red bay	İ		Х	Х	х			X	х	
Persea palustris	swamp bay			Х	X	х			X	Х	
Pinus pungens	table mountain pine	X					X	X			
Prunus americana	American wild plum	X	X			X	200	80.74	X		

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Scientific Name	Common Name	F	legio	ın	1	Light	t ·	1	Mois	ture	:
		М	P	С	s	P	F	L	М	H	A
Prunus caroliniana	Carolina laurel-cherry			х		Х	Х	Х	Х		
Quercus incana	bluejack oak			x		х	х	X			S
Quercus laevis	turkey oak			Х		Х	Х	Х			
Rhus glabra	smooth sumac	x	X				х	х	X		
Rhus hirta (Rhus typhina)	staghorn sumac	х					Х	х			
Salix caroliniana	swamp willow	x	Х	Х		X	х		х	X	
Salix nigra	black willow	X	Х	Х		X	Х		Х	Х	
Sassafras albidum	sassafras	Х	X	X		Х	X	X	X		
Staphylea trifolia	bladdernut		Х		Х				X	Х	
Symplocos tinctoria	horse-sugar, sweetleaf	х	x	X	X	Х		X	X		
Ulmus rubra	slippery elm	Х	Х		X	х			X		
Shrubs											
Aesculus sylvatica	painted buckeye	х	X		x	x			X		
Almus serrulata	common alder	X	X	Х	X	Х	Х				Х
Aronia arbutifolia	red chokeberry	X	X	Х	Х	Х			X	Х	
Baccharis halimifolia	silverling		X	X			X	X	Х	Х	
Callicarpa americana	American beautyberry		x	X	Х	Х	6.0	250	Х		
Calycanthus floridus	sweet-shrub .	X	X		X	Х			X		
Castanea pumila	Allegheny chinkapin	X	x	X	X	Х	Х	X			
Ceanothus americanus	New Jersey tea	X	x	X		X	x	x			

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assemble Scientific Name anagast	Common Name	R	tegio	n .	reny	Ligh	t _{ill}	an d	Mois	ture	ė.
A B B S I B E S B B A		M	P	С	s	P	F	L	М	H	A
Cephalanthus occidentalis	buttonbush slddod-gol	X	Х	Х	10	Х	Х	ACT.	nati	tat	Х
Clethra acuminata	mountain sweet pepperbush	X			Х	Х			X		
Clethra alnifolia	sweet pepperbush daugouis	2		Х	Х	Х	N	3123	X	X	i.
Comptonia peregrina	sweet fern	Х	Х			Х	X				
Cornus amomum 7 X X	silky dogwoodlead and grand	X	Х	Х	Х	Х		taloi		Attro	Х
Cormus stricta	swamp dogwood			х	X	х			7.	X	3
Corylus americana	American hazel, hazelnut	X	Х		Х	Х	di b		X	276	
Euonymus americanus	hearts-a-bustin', strawberry bush	X	Х	х	Х	Х		X	X		
Gaylussacia frondosa	dangleberry			х	Х	Х	х		х	Х	
Hamamelis virginiana	witch hazel	X	х	Х	X	X		X	Х		
Hydrangea arborescens	wild hydrangea	X	х	5	х	х			X		
Ilex coriacea	gallberry			Х	X	Х			X	X	14
Ilex decidua	deciduous holly, possumhaw		Х	X	X	X	11170	10 100	Х	PERC.	No.
Ilex glabra	inkberry			X	X	X			X	X	
Ilex verticillata	winterberry asserts restand	X	Х	X	X	X	US-T	anb	X	X	
Ilex vomitoria	yaupon holly			X	X	X	X	X			
Itea virginica () X X X	Virginia willow O nem and a		х	Х	X	X	Parada	in i	ne	X	
Kalmia carolina	lamb-kill, sheep-kill			Х		X	X		X	X	
Kalmia latifolia	mountain laurel	X	х		х	X		X	X	ada	5
Leucothoe axallaris	coastal dog-hobble			X	X	X			X		

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Scientific Name	Common Name	F	legio	n	1	Ligh	t	1	Mois	ture	å
		M	P	С	S	P	F	L	M	H	A
Leucothoe fontanesiana	dog-hobble	х	х		х				Х		
Leucothoe racemosa	fetterbush		X	X	Х	X			Х	X	
Lindera benzoin	spicebush	X	х	Х	х				Х		
Lyonia ligustrina	northern maleberry	Х	х			Х			X	X	
Lyonia lucida	shining fetterbush			Х	X	Х			х		
Myrica cerifera	Southern wax-myrtle		X	х	x	x	Х	X	X	Х	
Myrica cerifera var. pumila	dwarf Southern wax-myrtle			Х		Х	Х	X	х		
Myrica heterophylla	bayberry, evergreen bayberry			х	Х	X			x		
Pieris floribunda	evergreen mountain fetterbush	X					X	Х	Х		
Rhododendron atlanticum	dwarf azalea		4,0	X		X			X		
Rhododendron calendulaceum	flame azalea	Х			Х	Х			X		
Rhododendron catawbiense	Catawba rhododendron	Х	x		x	Х	X	X	X	1	
Rhododendron maximum	rosebay rhododendron, great laurel	X	X		Х	X		Х	Х		
Rhododendron periclymenoides	pinxter flower, wild azalea	Х	x	X	x	x			X		
Rhododendron viscosum	swamp azalea	Х		Х		X	X		Х	X	
Rhus copallina	winged sumac	X	X	Х		х	X	X	x		
Rosa carolina	pasture rose, Carolina rose	X	Х	X		Х	X	Х	X		
Rosa palustris	swamp rose	X	x	х		Х	х	180			Х
Rubus allegheniensis	Alleghany blackberry	Х	X				Х	Х			
Rubus odoratus	purple flowering raspberry	Х				X			X		

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Scientific Name	Common Name	R	tegio	n	geral	Ligh	ti e	do A	Mois	ture	ŧ .
N P C S P F L IM H A		M	P	С	s	P	F	L	М	H	A
Salix humilis X X X	prairie willow general application	Х	Х			17	х	Х	rail	5 48° 3	ř.
Salix sericea	silky willow	Х	х	х		Х	Х				Х
Sambucus canadensis	common elderberryans angulari	Х	Х	х	170	mer	х	2119	Х	Х	XI
Spiraea alba	narrow-leaved meadowsweet	Х			121		X		Х	74	
Spiraea latifolia	broad-leaved meadowsweet	Х		415		(1)	х	(234	Х	desi	
Styrax grandifolia	bigleaf snowbell		х	Х	X	X			X		
Vaccinium arboreum	sparkleberry sparklew modeliA		Х	Х	Х	X	1	Х	Х	Ste	W.
Vaccinium corymbosum	highbush blueberry	X	х	х	х	Х	х	Х	Х	Х	
Viburnum acerifolium	maple-leaf viburnum	Х	х		Х	Х		х	Х		
Viburnum dentatum	Southern arrowwood viburnum	х	x	x	х	х			X		j
Viburnum nudum	possumhaw viburnum	x	х	х	х	х				X	
Viburnum prunifolium	blackhaw viburnum	X	X	X	Х	X	i.e.		x		
Viburnum rafinesquianum	downy arrowwood		х		X	Х			Х		
Viburnum rufidulum	rusty blackhaw		х	X	x	X		X			
Xanthorhiza simplicissima	yellowroot	X	x	х	х	962		х	Х		
Vines					100						
Berchemia scandens	rattan vine, supplejack			X	X	X			X	X	
Bignonia capreolata	crossvine		X	X	х	X			X	X	No.
Clematis virginiana	virgin's bower	X	X			X	X		X		1

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		M	P	С	S	P	F	L	M	H	A
Decumaria barbara	climbing hydrangea	X		х	Х				Х	х	
Gelsemium sempervirens	Carolina jessamine		х	Х	X	X	х	X	X		
Lonicera sempervirens	trumpet honeysuckle		х	х		Х			X		
Mikania scandens	climbing hempweed		x	х		Х	x		Х	х	
Parthenocissus quinquefolia*	Virginia creeper	Х	х	Х		Х	Х	Х	Х		
Vitis rotundifolia*	muscadine grape	X	х	x		x	Х	x	x		
Wisteria frutescens*	Atlantic wisteria	*/	1958	х		х	Х		Х	X	FINE
Herbs			0.480		6.59	35.53		9.1.V			33
Actaea pachypoda	white baneberry, doll's-eyes	x			х	A			х		
Amsonia tabernaemontana	blue star		х	Х	х	Х			Х		
Anemone quinquefolia	wood anemone	X			х			63.5	x		
Anemone virginiana	thimbleweed	Х	Х			Х			X		
Anemonella thalictroides	rue anemone, windflower	X	х		X				Х		
Antennaria neglecta	field pussytoes	X	X			Х	Х	Х	Х		
Aquilegia canadensis	wild columbine	x	х	х	x	Х			X		
Arisaema triphyllum	Jack-in-the-pulpit	X	х	х	Х				X		
Aruncus dioleus	goat's-beard	х	X		x	x			X	83	
Asarum canadense	wild ginger	X	Х		Х				Х		L
Asclepias incarnata	swamp milkweed	Х	х				X				Х
Asclepias syriaca	common milkweed	x	x				X	X	X		

Clitoria mariana

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Scientific Name Region Light Moisture Common Name M C P H X X X Х X Asclepias tuberosa X X X X Aster concolor Eastern silvery aster X x X X X heart-leaved aster X Aster cordifolius X X X X X X X white wood aster Aster divaricatus X X X Aster grandiflorus large-flowered aster X X X X X Aster linariifolius stiff-leaved aster X X X X New England aster Aster novae-angliae X X X X X New York aster Aster novi-belgii X X X X X Aster pilosus white heath aster, field aster X X X X Aster umbellatus flat-top white aster X X X X white wild-indigo Baptisia alba X X X X Carolina wild indigo Baptisia cinerea X X X X X X vellow wild-indigo Baptisia tinctoria X X X X bur marigold Bidens aristosa X X X X X X nodding beggar-ticks Bidens cermia X X X X X wild senna Cassia marilandica X X X X X X white turtlehead Chelone glabra X X X X X green-and-gold Chrysogonum virginianum X X X X X black cohosh Cimicifuga racemosa X X X X X X spurned butterfly pea Clitoria centrosema

Maryland butterfly pea

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Scientific Name	Common Name	R	tegio	n	1	Light	t	. 1	Mois	ture	;
	·	M	P	С	S	P	F	L	M	H	A
Convallaria montana	American lily-of-the-valley	X			Х	Х			Х		
Coreopsis auriculata	coreopsis		Х		х	X	12(4)		х		
Coreopsis lanceolata	lance-leaved coreopsis		Х	Х		Х	Х	х	х		
Coreopsis tripteris	tall coreopsis	X	х			Х	Х		Х		
Delphinium tricorne	dwarf larkspur	Х	Х		Х				х		
Dicentra cucullaria	Dutchman's breeches	Х	Х		Х				X		
Dracocephalum virginianum	obedient plant	Х	Х			Х	Х		Х		
Equisetum hyemale	scouring rush	х	Х		X	Х	х		х	x	
Eupatorium coelestinum	mistflower		X	х	Х	Х	Х		Х		
Eupatorium fistulosum	Joe-Pye-weed	X	Х	X	4.1	х	х		X		
Eupatorium perfoliatum	boneset	X	Х	Х		Х	Х		X	х	
Fragaria virginiana	wild strawberry	Х	х			77	Х	Х	Х		
Gentiana saponaria	soapwort gentian	Х	Х	Х	Х					Х	
Geranium maculatum	wild geranium	X	Х		X	X			X		
Gillenia trifoliata	bowman's root	X	Х		X	X			x		
Helenium autumnale	sneezeweed	Х	Х	х		X	Х		X	x	
Helianthus angustifolius	narrow-leaf sunflower			X		Х	Х		X	X	L
Helianthus decapetalus	ten-petaled sunflower	X	х		X	Х			X		
Helianthus divaricatus	woodland sunflower	X	Х			X		X		L	L
Heliopsis helianthoides	ox-eye sunflower	X	Х			Х	X		Х		
Hepatica acutiloba	sharp-lobed hepatica	X			X			X	X		L

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Scientific Name	Common Name	R	egio	n	1	ight	Utipa	i l	Mois.	x x x		
		м	P	С	s	P	F	L	M	H	A	
Hepatica americana	round-lobed hepatica	ಾರೆ	X		X		D ₍₀₎	dod	X	27576	W	
Heterotheca mariana	Maryland golden aster	X	X	Х		Х	X	X				
Heuchera americana	alumroot vili ressw asober	aA	X	Х	Х	1		X	Х	Made Section	VA.	
Hexastylis arifolia	wild ginger, hearleaf	X	X	X	Х	X		X	X			
Hibiscus militaris	Halbeard-leaved marsh mallow	Fa		х		12	х	iliano.	a cos	461	Х	
Hibiscus moscheutos	rose mallow	X	X	X			X			10	X	
Impatiens capensis	spotted touch-me-not, jewel-weed	X	х	х	Х	х			7 W.	х		
Iris cristata	dwarf crested iris	X	X		Х	Х			X			
Iris virginica	blue flag iris	X		X		X	X	H		ness.	Х	
Kosteletskya virginica	seashore mallow		H	X			X				Х	
Lespedeza capitata	round-head bush clover		х	X			X	Х				
Liatris graminifolia	grass-leaf blazing star	X	X	X	4	X	X	X	X			
Liatris spicata	spiked blazing star	X		Х		X	Х		X			
Liatris squarrosa	plains blazing star	4	X			X	X		X			
Lilium michauxii	Carolina lily	X	X	X	X	X		X	X			
Lilium superbum	Turk's-cap lily	X		76.5	X	X			X	X	-	
Lobelia cardinalis	cardinal flower	X	х	Х		Х	Х				χ	
Lobelia siphilitica	great blue lobelia	x				X					Х	
Lupinus perennis	lupine			X		X	X	X				
Mimulus ringens	monkeyflower	X	X			X	X			X		

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Scientific Name	Common Name	F	Regio	n]	Ligh	t	1	Mois	ture	
		M	P	С	s	P	F	L	М	H	A
Monarda didyma	bee balm, Oswego tea	Х			Х	Х			Х	Х	
Monarda fistulosa	wild bergamot	Х	Х			Х	X		X		
Nymphaea odorata	American water lily	Х	х	Х			Х				Х
Oenothera fruticosa	sundrops	x	х	х	3.3	Х	X	X	X	X	X
Opuntia compressa	Eastern prickly-pear		х	х			Х	Х			
Packera aurea	golden ragwort	X	Х		x	x		961-3	x	X	
Peltandra virginica	arrow arum		Х	Х		Х	Х				Х
Penstemon laevigatus	smooth beardtongue		X	х	View No.	x	Х		х	123	
Penstemon smallii	beardtongue	X				Х	Х	Х	Х		
Phlox carolina	thick-leaved phlox, Carolina phlox	x	х			X	X	х	x		
Phlox divaricata	blue phlox	Х			Х	х			X		
Phlox glaberrima var. triflora	smooth phlox	X				X	X		X		
Phlox paniculata	summer phlox	X	Х			X	Х		Х		
Phlox stolonifera	creeping phlox	х			х	X			x		
Podophyllum peltatum	mayapple	Х	х	Х	Х	X			X		
Polygonatum biflorum	Solomon's seal	X	X	Х	Х	Х			x		
Pontederia cordata	pickerelweed		Х	X			X				Х
Pycnarthemum incamum	hoary mountain-mint	Х	x	X		х		X	X		
Pycnanthemum tenuifolium	narrow-leaved mountain-mint	X	X	х		Х	X	Х	X	-	
Rhexia virginica	Virginia meadow-beauty	X	x	x			x			X	

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Scientific Name	Common Name	F	legio	n	enial	Ligh	t .	doll	Mois	ture	
A BURE IN THE REPORT OF THE		М	P	С	S	P	F	L	М	н	A
Rudbeckia fulgida	common eastern coneflower	2	Х			Х	Х	X	X	da a	Sea
Rudbeckia hirta	black-eyed Susan	X	Х	X		X	X	X	X		
Rudbeckia laciniata	cut-leaved coneflower	X	Х	Х	ha.	Х	Х	ja ri	Х	X	
Rudbeckia triloba	three-lobed coneflower	X	Х			Х			X		
Sagittaria latifolia 💢 💢	duck-potato, arrowhead		х	Х			Х	C0014	2 448	aw	X
Sage lyrata	lyre-leaved sage			Х			X	Х	X		
Salvia urticifolia	nettle-leaved sage	X	х			х	Х	X	Х	ed V	(Y
Sanguinaria canadensis	bloodroot	X	Х	х	X				Х		
Saururus cernuus	lizard's-tailbes was a sho'f was	8	х	х	Х	Х	X	v #bri	53/2	o (c)	Х
Saxifraga virginiensis	early saxifrage		x	1	X	X		X	X		
Sechum ternatum	wild stonecrop	X	Х		Х	Х		noi.	X	ula	ų į
Silene stellata	starry campion	X	X		X				X		
Silene virginica	fire pink their foots ha	X	Х		01.50	Х	Mari	X	X	his	াৰ
Silphium compositum	rosin-weed	X	X	Х		X	X	X			
Silphium dentatum	starry rosin-weed vid on samu		х			X	(45,4) (45,4)	X	D ₁ e	No.	
Smilacina racemosa	false Solomon's-seal	х	х	х	Х	Х			X		
Solidago caesia	bluestem goldenrod		X		X	X			X	6 SA T	
Solidago odora	sweet goldenrod		Х	X		X	X	X			
Solidago pinetorum	pineywoods goldenrod		х	X		X	X	X			
Solidago puberula	downy goldenrod	X	x	Х			X		X	X	
Solidago rugosa	rough-stemmed goldenrod	X	X	Х	10	X	X		X	Cit	A.

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Scientific Name	Common Name	F	Regio	n.		Ligh	t	1	Mois	ture	÷
		M	P	C	s	P	F	L	М	н	A
Solidago sempervirens	seaside goldenrod			Х		х	Х			Х	х
Thalictrum dioicum	early meadowrue	X	х		х				х		
Tiarella cordifolia var. collina	clumping foamflower	X	Х		Х				Х		
Tiarella cordifolia	spreading foamflower	Х			х				Х		
Trillium cuneatum	little sweet Betsy	X			Х				Х		
Trillium erectum	wake robin	X			х				X		
Trillium grandiflorum	large-flowered trillium	Х			Х				Х		
Uvularia grandiflora	large-flowered bellwort	Х			х				х		
Vernonia noveboracensis	New York ironweed	X	Х	Х		Х	Х			Х	
Veronicastrum virginicum	Culver's root	x				X	Х		X	x	
Viola cucullata	marsh blue violet	Х				Х	Х			Х	
Viola eriocarpa	yellow violet		x		X	X	4		X		
Viola pedata	bird's-foot violet	X	Х	Х		х	Х	X			
Yucca filamentosa	common yucca, beargrass	x	х	X		X	x	x			
Zephranthes atamasco	Atamasco lily		X	Х		X	X		х	х	
Ferns											
Adiantum pedatum	maidenhair fern	X			X				Х		
Asplenium platyneuron	ebony spleenwort	X	X	Х	х	Х			Х		
Athyrium asplenioides	Southern lady fern	х	х	X	x				х	X	
Botrychium virginianum	rattlesnake fern	X	X	x	x	Х		Х	X	Х	

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Scientific Name	Common Name	P	Region		Light			Moisture			
भू स्टेश है है है है है है है	144	М	P	C	S	P	F	L	M	H	A
Dennstaedtia punctilobula 💢 🔏	hay-scented fern	X	4.500	10.7 200.0	op, reliand	Х	Х	х	X		5
Dryopteris intermedia	fancy fern	X			х	X			X		
Dryopteris marginalis	marginal shield-fern	X S	X	209000	Х	Х	narray Djirliji	133	X	egene State	C.
Onoclea sensibilis	sensitive fern	X	X	Х		х	Х		X	Х	19
Osmunda cinnamomea	z cinnamon fern	kwa X	Х	Х	Х	Х	ffest i		X	X	
Osmunda regalis	royal fern	X	Х	X	X	х			X	X	
Polystichum acrostichoides	Christmas fern	x	х	Х	Х	Х	7113	х	X	3.10C	131
Pteridium aquilinum	bracken fern	X	Х	х		Х		Х	X		
Thelypteris palustris	marsh fern	x	Х	Х	-	X	Х	La y	20	Х	W.
Woodwardia areolata	netted chain fern	x	Х	х	X	X			X	X	
Woodwardia virginica	Virginia chain fern gang da	Bars	X	Х	X	X	х		Х	X	Ä,
Grasses, Sedges, and Rushes	X mora-old-s	iliul		7.01	Vegu	1000		take.			
Agrostis perennans	autumn bentgrass	X	X	X	X	X	X	X	X	X	
Andropogon gerardii	big bluestem	thal X	X	X	Sy and the	Х	X	X	X	NSC	EZ.
Andropogon virginicus	broomsedge	X	X	X		Х	X	X	X	0363	1
Arundinaria gigantea	X giant cane quield	X	х	х	Х	X	X	X	X	X	A
Carex crinita	long hair sedge		X	X		X	X		X	X	
Carex Iurida	/ sallow sedge has however	X	X	X		X	X	10	ini.	X	Х
Carex pensylvanica	Pennsylvania sedge	X	X		X	X	Х	X	X		
Carex plantaginea	plantain-leaved sedge	X	X		X		10,771	1000	X	272	in the

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Scientific Name	Common Name	Region		٠ :	Ligh	Moisture					
•		M	P	С	s	P	F	L	M	н	A
Carex stricta	tussock sedge	X	х	Х		х	Х			X	х
Chasmanthium latifolium	river oats	Х	х	х	X	Х	Х	ŲŽ.	X	x	
Danthonia sericea	silky oatgrass		х	Х		Х	х	х	Х		-
Danthonia spicata	poverty oatgrass	Х	х	Х	Х	Х	X	X	X	2.3	
Dulichium arundinaceum	dwarf bamboo	Х	Х	Х		X	Х				х
Hystrix patula	bottlebrush grass	X	х		х	x	x	x	Х		
Elymus virginicus	Virginia wild rye	Х	Х	Х	х	Х		Х	X		
Festuca rubra	red fescue	X	X	Х		Х	x	х	X		
Juncus effusus	soft rush	Х	х	х		Х	Х			Х	X
Leersia oryzoides	rice cutgrass	x	x	x		X	x			X	х
Panicum virgatum	switch grass			Х		Х	Х	Х	X	X	
Erianthus giganteus	giant plumegrass		Х	X		X	X		Х	x	
Schizachyrium scoparium	little bluestem	X	х	Х		Х	Х	Х	Х		
Scirpus cyperinus	woolgrass	x	x	X		X	Х			Х	x
Sorghastrum nutans	Indian grass	X	Х	Х		X	X	Х	X		
Sparganium americanum	American bur-reed	X		Х		X	Х				x
Tridens flavus	purple top	X	Х	X		Х	X	Х	X		
Tripsacum dactyloides	gama grass	X	x	X		Х	x		X	Х	
Typha latifolia	broad-leaved cattail	X	Х	x			X			X	х
Zizania aquatica	wild rice			x			X	10			Х
						\perp					

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Scientific Name	Common Name	R	Region		1	Light	-	Moisture			
	M M	P	C	S	P	F	L	M	H	A	
Ground covers	is son half alle programs at sear C	sugger its		in res	unz	iniê.					
Aster divaricatus	white wood aster	X	Х	al ()	X	X	Х	Х	X		
Chrysogonum viginianum	green-and-gold	3.5	х	Х	х	Х	38.0		Х		. :
Coreopsis verticillata	threadleaf coreopsis		X	Х		X	Х	Х			-
Dennstaedtia punctilobula	hayscented fern	X	Х	hei	bd l	X	X	Х	X		
Dicentra eximia	wild bleeding heart	X			X	Х		X	X		
Fragaria virginiana	wild strawberry	X	х		li il		Х	Х	Х		
Leucothoe fontanesiana	dog-hobble	X	X	4	Х				X		
Mitchella repens	partridgeberry	X	Х	X	X	X	lig?2	X	Х		
Podophyllum peltatum	mayapple	X	х	X	Х	Х			X		
Smilacina racemosa	false Solomon's seal	X	Х	Х	X	X	3 3623		X		
Thelypteris hexagonoptera	beech fern	x	х	X	X	X		X	X		
Tiarella cordifolia	spreading foamflower	3 X	UN.	no"	X	Х	S.IR		X		
Vaccinium vacillans	low sweet blueberry	X	х		X	X		X			
Vitis rotundifolia*	muscadine grape	X	Х	X	Х	X	X	х	X		
Woodwardia areolata	netted chainfern	x	Х	Х	X	х			X	Х	
Woodwardia virginica	Virginia chain fern			Х	Х	Х	Х		X	X	

^{*} This species can exhibit invasive characteristics. Please contact the Resource Management Program before planting this species.

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9.0 ROLES AND RESPONSIBILITIES

9.1 Superintendent of State Parks

The Superintendent of State Parks is responsible for the administration of the Planting Guidelines.

9.2 Park Superintendents

Park superintendents are responsible for preventing the introduction of invasive exotic plants into park boundaries to the greatest extent possible. They share responsibility with the Resource Management Program for final approval of plants and seeds that are planted in the parks.

9.3 Resource Management Program

Staff of the Resource Management Program are available to provide technical assistance on plants and seeds that are appropriate to plant in a particular locality and park. They share responsibility with the park superintendent for final approval of any plants and seeds that are planted in a park.

9.4 <u>Construction Program</u>

Staff of the Construction Program are responsible for ensuring that only plants and seeds listed in these guidelines are included in the specifications for seeding and landscaping at new facilities as well as any other type of project involving soil stabilization such as roads.

Glossary	
allelopathy -	the process in which a plant releases into the environment a chemical compound which inhibits the growth of another plant in the same area.
annual -	completing the life cycle in one growing season.
cool season grasses -	grasses that germinate in the fall or early spring. They generally germinate quickly and are often useful for soil stabilization.
perennial -	a plant lasting for 3 or more years.
rhizomatous -	reproduction by horizontal roots, often resulting in a colony of plants.
rhizome -	an elongated, underground root which usually grows horizontally.
warm season grasses -	grasses that germinate when soil temperatures are at least 55° F. Warm season grasses usually grow slowly and are used more for aesthetic and ecological reasons rather than prompt stabilization of soil.